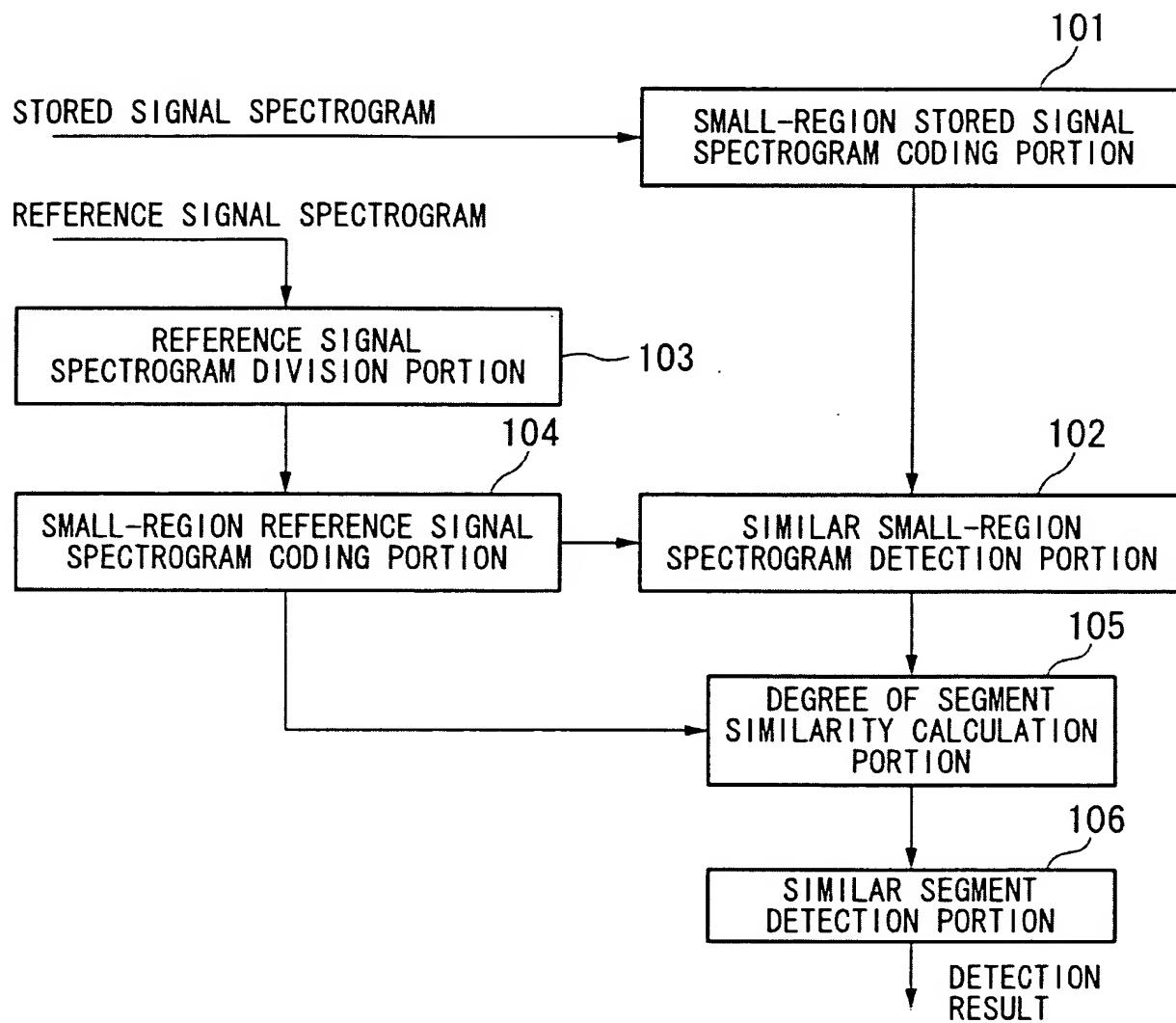
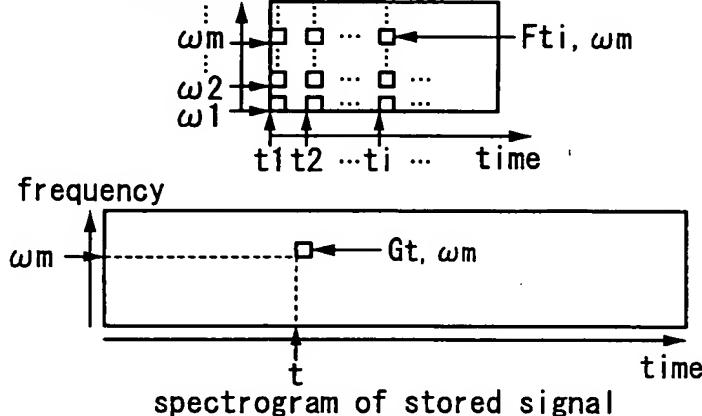


FIG. 1



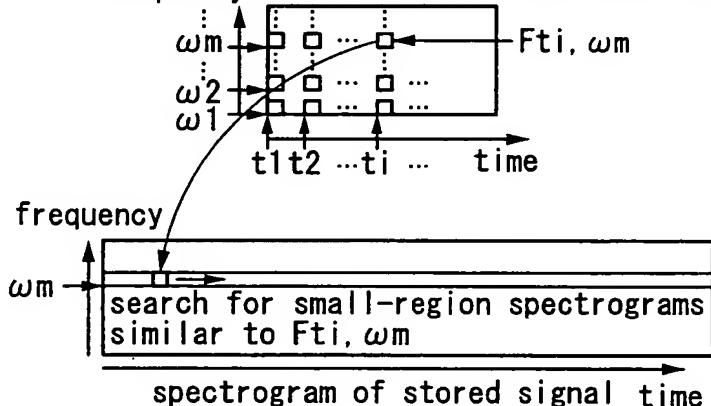
<sup>2/7</sup>  
**FIG. 2**

frequency spectrogram of reference signal



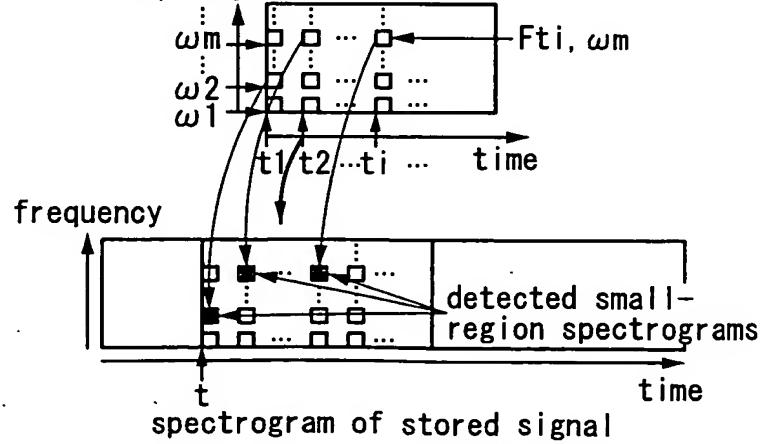
(a) DIVIDE SPECTROGRAMS OF REFERENCE SIGNAL INTO  
 SMALL-REGION SPECTROGRAMS

frequency spectrogram of reference signal



(b) DETECT SMALL-REGION STORED SIGNAL SPECTROGRAMS SIMILAR  
 TO EACH  $F_{ti}, \omega_m$  BASED ON SIMILARITY OF SMALL-REGION CODE

frequency spectrogram of reference signal



(c) CALCULATE DEGREE OF SEGMENT SIMILARITY  $S(t)$

FIG. 3

$$\begin{bmatrix} \nu(\omega_{1,1,1}) & \nu(\omega_{1,1,2}) & \dots \\ \nu(\omega_{1,2,1}) & \nu(\omega_{1,2,2}) & \dots \\ \vdots & \vdots & \ddots \end{bmatrix}$$

$$\begin{bmatrix} \nu(\omega_{2,1,1}) & \nu(\omega_{2,1,2}) & \dots \\ \nu(\omega_{2,2,1}) & \nu(\omega_{2,2,2}) & \dots \\ \vdots & \vdots & \ddots \end{bmatrix}$$

⋮  
⋮

FIG. 4

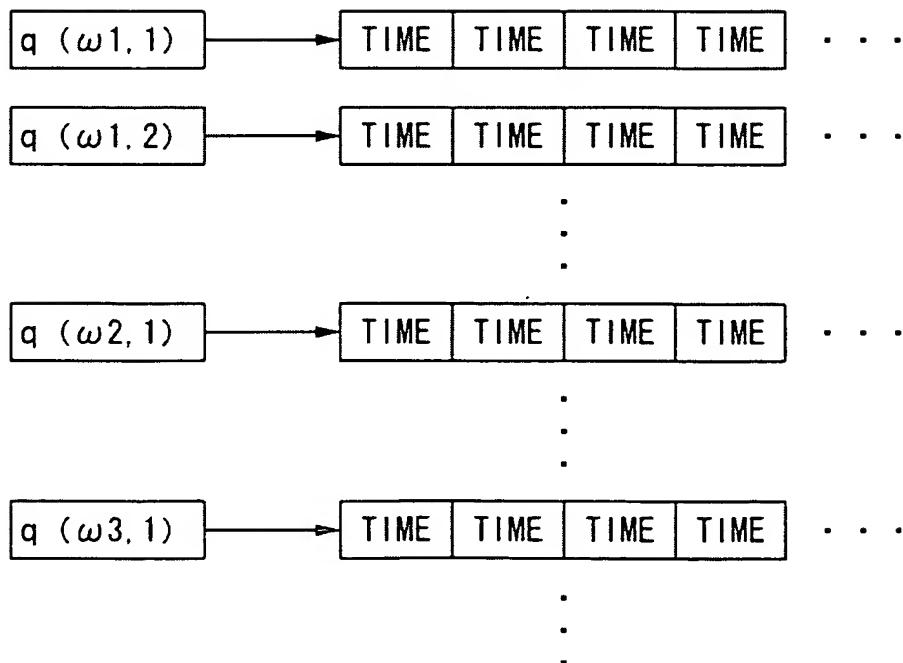


FIG. 5

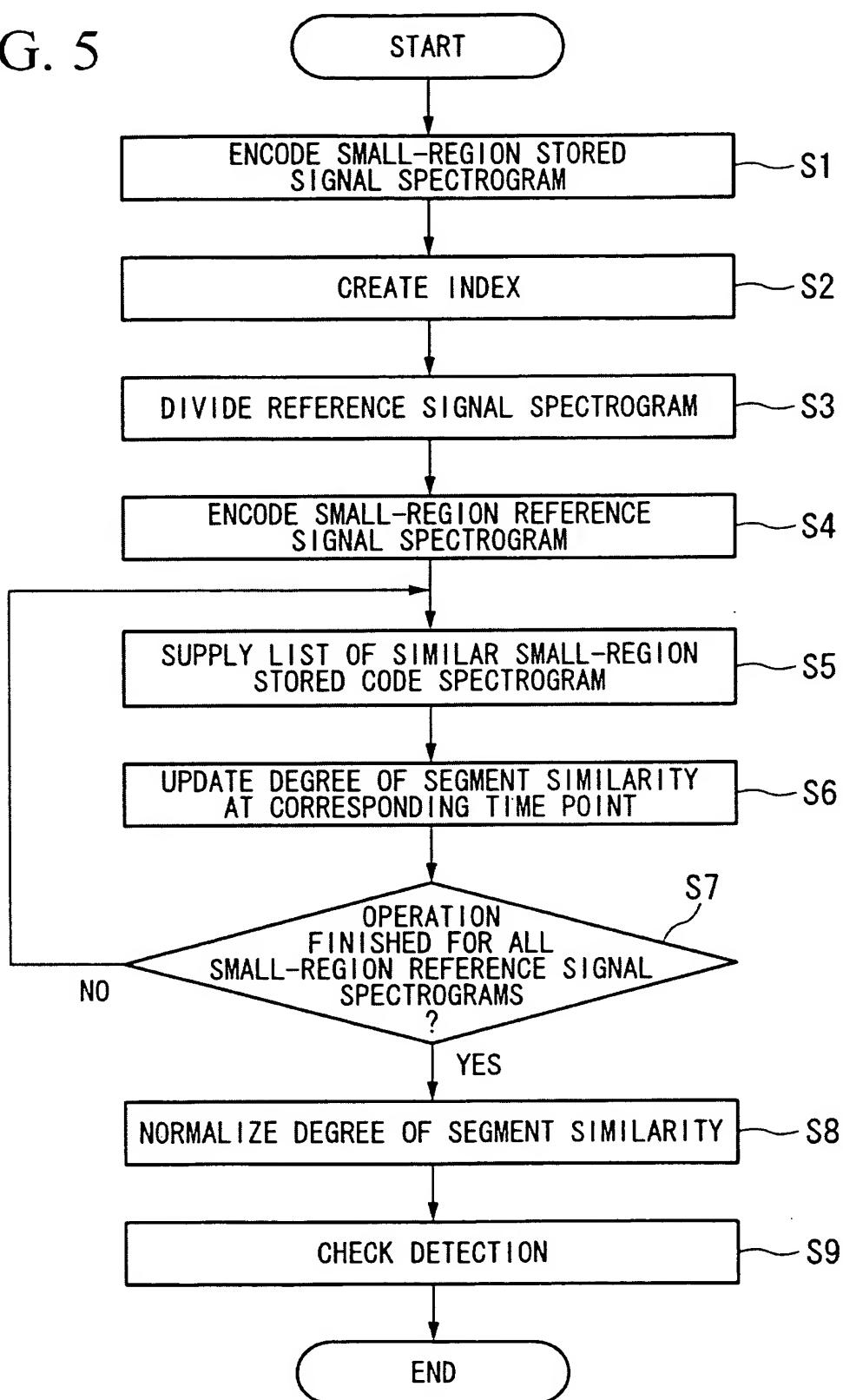


FIG. 6

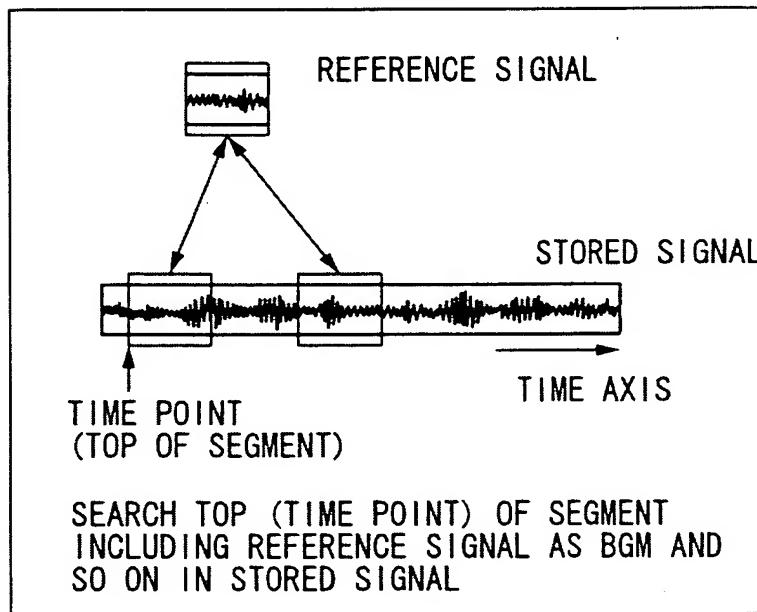


FIG. 7

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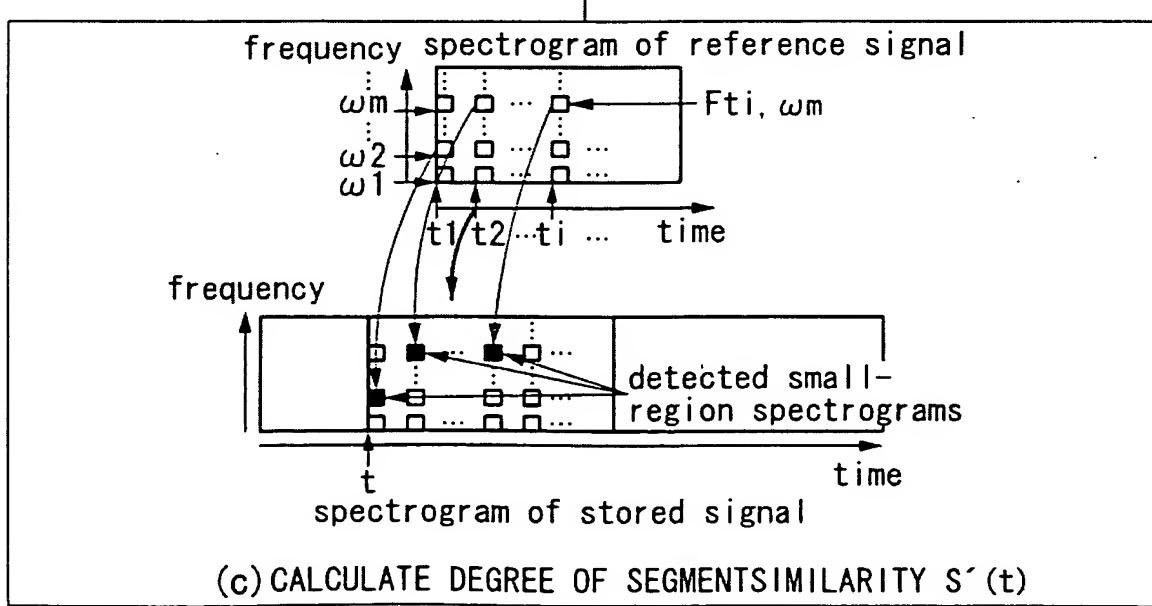
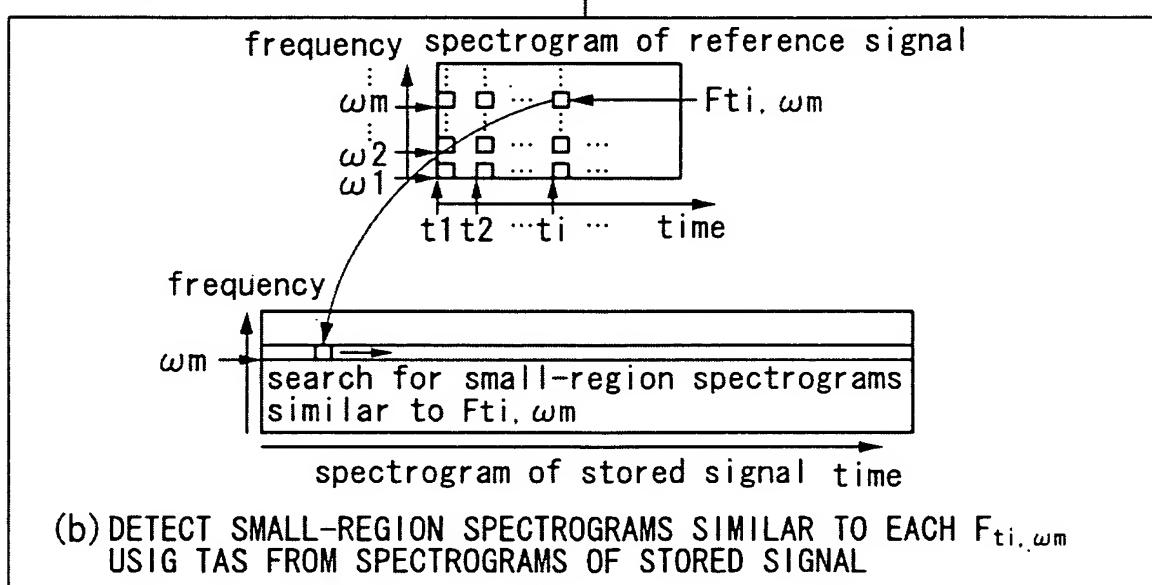
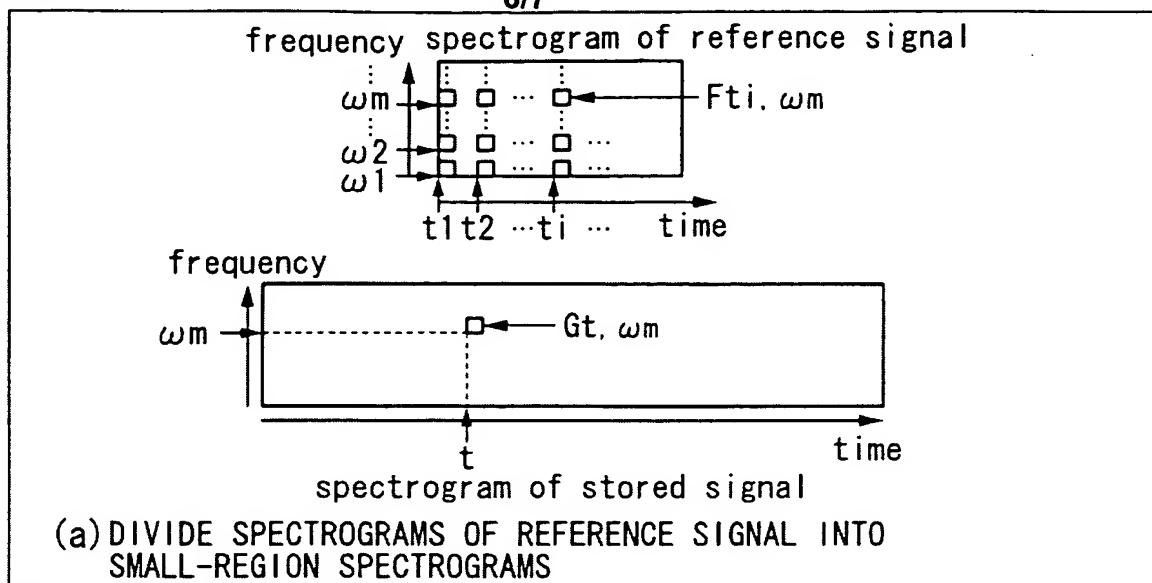


FIG. 8

